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(71)Applicant: NIPPON PARKERIZING CO LTD

MITSUBISHI ELECTRIC CORP

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(72)Inventor: SAKO RYOSUKE

HAMAMURA KAZUNARI

FURUYAMA OSAMU KAWAMOTO TAKAO

(54) ALUMINUM-CONTAINING METAL COMPOSITE FOR HEAT EXCHANGER

(57)Abstract:

PURPOSE: To obtain an aluminum-containing metal composite for a heat exchanger which is excellent in hydrophilicity and a frost preventing effect, by forming a specific frost preventing resin film layer on at least one surface of an Al-containing metal material.

CONSTITUTION: A water base treatment solution containing a polymer component A constituted of the monopolymer or copolymer of an acrylamide monomer expressed by the formula, a polymer component B constituted of the monopolymer or copolymer of a monomer having a carboxylic acid group, a sulfonic acid group, a phosphonic acid group, primary to tertiary amino groups or a quaternary ammonium group in a molecule or of the salt of the monomer, a crosslinking

$$CH_{2} = C - C - N \left\langle \frac{R^{a}}{R^{a}} \right\rangle$$

agent component C and a metal compound component D constituted of a compound of Li, Mg or Ba is applied on an Al-containing metal material and put in a crosslinking reaction, whereby a frost preventing resin film layer is formed. in the formula, R1 denotes an H or methyl group

and R2 and R3 denote H, an alkyl group, a benzyl group or a hydroxyalkyl group of C1 to C4.

LEGAL STATUS

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